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VEHICLE CARE

FOREWORD



BY APPOINTMENT TO HER MAJESTY QUEEN ELIZABETH II MANUFACTURERS OF DAMLER AND JACQUAR CARS



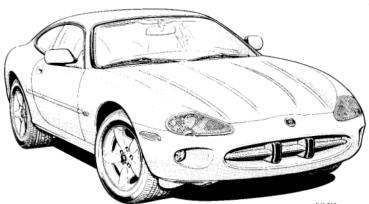
BY APPOINTMENT TO HER MAJESTY OUDER LEZABÉTH THE QUEEN MOTHER MANUFACTURERS OF DAIMLES AND JAGUAR CARS JAGUAR CARS LIMITED COVENTRY



BY APPOINTMENT TO HIS ROYAL HIGHNESS THE PRINCE OF WALES MANUFACTURERS OF DAIMLER AND JAQUAR CARS JAQUAR CARS LIMITED COVENTRY

JAGUAR CARS LIMITED as manufacturers, are dedicated to the design and production of vehicles which meet the expectations of the world's most discerning purchasers.

To complement the features, systems and technology of your new vehicle we have produced this Vehicle Care Handbook. In it we have undertaken to provide information on vehicle care and maintenance to enable you to obtain lasting pleasure and reliability from your vehicle.



The Manufacturer reserves the right to vary its specifications with or without notice, and at such times and in such manner as it thinks fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

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The information contained herein applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle, owners should consult their Jaguar Dealer.

VEHICLE CARE ¬

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General Information

Details of the vehicle warranty are given in the 'Service Record and Warranty Book'.

When left-hand or right-hand is used in the text, this refers to the left-hand side or right-hand side of the vehicle, viewed from the rear.

Jaguar Dealers

Jaguar Dealers are chosen with care. Each is dedicated to providing a Sales, Service and Genuine Jaguar Parts facility of the highest standard.

Jaguar Dealers provide full technical back-up from the factory with comprehensive training for all their technicians. All Dealers' workshops operate to the highest standard and have all the necessary approved tools and equipment essential to maintain or repair Jaguar vehicles.

The Jaguar Diagnostic System

The equipment used to assist diagnosis of faults in the electrical and electronic systems of the vehicle is unique and is only available to Jaguar Dealers. Use of this equipment will enable the Dealer to trace and rectify faults in the system and ensure that only faulty components are repaired or replaced.

Caution: Severe damage to the electrical system and electronic components can occur if any attempt is made to diagnose faults in the electrical system using conventional diagnostic equipment (i.e. use of test lamps, low impedance voltmeters, etc.).

Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and the vehicle meets its specification.

Regular maintenance and servicing is the responsibility of the owner. Jaguar Dealers will be pleased to arrange periodic servicing in accordance with the 'Service Record and Warranty Book' and 'Maintenance Schedules' booklet.

Failure to implement maintenance at the recommended intervals could result in deterioration of vehicle performance and possible infringement of regulations.

Safety Precautions

Take particular note of **WARNINGS** and **Cautions** given throughout this handbook.



✓! WARNING:

Procedures which must be followed precisely to help avoid the risk of personal injury.

Caution: Procedures which must be followed precisely to reduce the possibility of damage to the vehicle and resultant risk of personal injury or inconvenience.

Warning symbols on the vehicle

On encountering the warning triangle and open book symbol on the vehicle, it is important that you consult the relevant section of this handbook before touching this part of the vehicle or attempting adjustments of any kind.





Safety Precautions (continued)



WARNING:

- Many liquids and other substances used in vehicles are poisonous and must never be consumed and should be kept away from open wounds. These substances include anti-freeze, brake fluid, fuel, windscreen washer additives, lubricants and various adhesives.
- The presence of any unusual fumes (e.g. petrol or exhaust fumes) in the passenger compartment and/or luggage compartment should be corrected immediately by a Jaguar Dealer. If you must drive under these conditions do so only with all windows fully open.
- Any modifications to the fuel system not specifically designed for this Jaguar are prohibited. Such modifications in some circumstances could result in a fire. All service actions must be entrusted to a Jaguar Dealer.
- 4. Alterations to the electrical system, including the fitting of accessories not designed for this Jaguar will cause damage to the electrical circuits and systems. In some circumstances this could result in a fire. All accessory work should be entrusted to a Jaguar Dealer.
- 5. No attempt should be made to repair a fuse that has blown. Always install a fuse of the correct amperage (see the fuse charts on pages 46 to 50). Failure to comply with the above may cause a fire hazard or serious damage elsewhere in the electrical circuit.

- Avoid contact with battery acid which is poisonous and corrosive. Acid will cause burns to the skin as well as to the eyes. In the event of skin or eye contamination, wash the affected area with water thoroughly. Seek immediate medical attention when eye contact has occurred.
- Never reverse the battery terminal connections. Always disconnect both terminals before battery charging.
- 8. When disconnecting the battery connections, always disconnect the earth terminal first and reconnect last.
- Batteries produce combustible gas (hydrogen) when charging. Switch off the charger before connecting or disconnecting terminal connections to avoid sparks and short circuits.
- 10. Do not disconnect any pipes in the air conditioning refrigeration system. A refrigerant is used which can cause blindness if allowed to contact the eyes. FIRST AID: If refrigerant should contact the eyes or skin, wash the eyes or affected area with cold water for several minutes. Do not rub. As soon as possible thereafter, obtain treatment from a doctor or eye specialist.

Safety Warning and Caution Labels

Note: Do not remove any warning labels from the underbonnet area or inside of the vehicle.

Braking System (A)

The brake fluid caution symbol is moulded into the master cylinder filler cap.

Brake system warning information is moulded into the master cylinder reservoir and states:

WARNING - CLEAN FILLER CAP BEFORE REMOVING. USE ONLY SUPER DOT 4 BRAKE FLUID FROM A SEALED CONTAINER.

Power Steering System (B)

The label is located on the reservoir filler cap and states: WARNING

Refer to SECTION 3 for topping up the power steering system.

Cooling System (C)

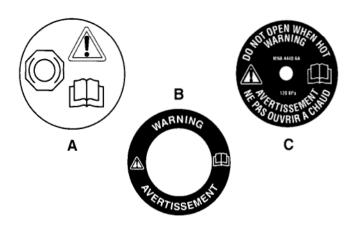
The header tank label is located on the filler cap and states: WARNING – DO NOT OPEN WHEN HOT.

Rotating Components (D)

A label is located on the fan shroud and states: WARNING – ROTATING COMPONENTS – KEEP CLEAR.

Climate Control System (E)

The label located under the bonnet on the left–hand side states: CAUTION – System pressurised with HFC refrigerant 134a. System to be serviced by qualified personnel.







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General Precautions

- Ensure that the vehicle is securely supported before working underneath it. Chock the front wheel and apply the handbrake.
- Whenever possible use a suitable wheel-free lift when working beneath the vehicle. If a jack is used to support the vehicle, use axle stands carefully placed at the jacking points to provide a rigid support. Do not use any jacking equipment under the front cross member
- Ensure that adequate ventilation is provided when volatile degreasing agents are being used.
- Never use volatile cleaning fluids under a vehicle standing over a pit. Many such fluids give off vapours which are heavier than air and dangerous to inhale.
- Wear protective overalls, ensure loose clothing (ties, etc.) are removed or covered when working adjacent to moving components (fan belts, etc.).
- Do not leave opened containers of oil, fuel, etc., about the work area. Always refit caps/seals to partially used containers when storing them for later use.
- Do not leave tools, equipment, spilt oil, etc., around or on the work area.

- Place a fire extinguisher close to the vehicle and disconnect the negative battery terminal. Do not use a naked flame to provide illumination, especially under the vehicle, or in the engine and luggage compartments. Do not smoke while working on the vehicle.
- Do not apply heat in an attempt to free nuts or fittings. This will damage protective coatings and there is a risk of damage to electronic equipment and brake and fuel lines from conducted heat.
- Inspect power leads of any mains electrical equipment for damage, and check that it is properly earthed.

General Precautions Against Damage

- When working in the engine compartment protect the exterior paintwork by using suitable covers over the wings and scuttle.
- To prevent soiling the interior, carry out jobs requiring access to the passenger or luggage compartments first. If a job involves access to the interior in the course of other work, prevent the transfer of oil and grease to the interior by using seat and carpet covers and wearing clean overalls and gloves.
- Always use a recommended service tool, where specified.
- Avoid spilling hydraulic fluid or battery acid on paintwork.
 Wash off with water immediately if this occurs.

General Precautions (continued) Used Engine Oil



Prolonged and repeated contact may cause serious skin disorders, including dermatitis and cancer.

Always use a hand cream to protect the skin from oil contamination. Avoid contact with the skin as far as possible and wash thoroughly after any contact. Keep oils out of reach of children.

PROTECT THE ENVIRONMENT: It is illegal to pollute drains, water courses and soil. Use authorised waste collection facilities, including civic amenity sites and garages providing facilities for the disposal of used oil, oil filters and batteries. If in doubt, contact your Local Authority for advice on disposal.

Engine and Throttle Settings

Do not attempt to make adjustments to the engine or throttle settings. Many vehicle systems are controlled by complex electronic devices and require specialist knowledge. Such work should be entrusted to a Jaguar Dealer.

Battery/Ignition Isolator Switches

Non-approved battery isolator switches, which disconnect the power supply to all electrical circuits, are **not** recommended.

Hydraulic Fluids

The Brake Hydraulic Fluid in the master cylinder and brake operating system uses non-mineral polyglycol based brake fluid with a minimum standard of JAGUAR SUPER DOT 4. ONLY FLUID OF THIS TYPE AND STANDARD MAY-BE USED.



✓!\ WARNING:

Contamination of the brake system fluid by as little as 1 per cent will cause rapid deterioration of the system seals. Ensure that the brake fluid reservoir cap is securely fitted.

Electrical Accessories

The fitting of any electrical accessory **should only** be entrusted to a Jaguar Dealer. Refer to the Electrical Accessories in SECTION 7. This information must be observed before fitting any accessories.

Bonnet Release Control

The bonnet lock release control is below the fascia on the passenger's side.

To open: Release the bonnet lock by pulling the lever. Reach across to the centre of the bonnet and lift the rear edge. The gas filled struts will assist raising the bonnet, and retain it in the fully open position.

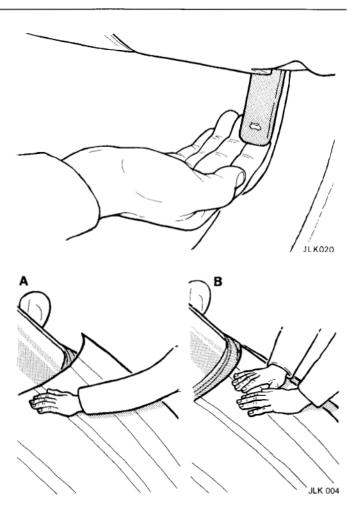


✓!\ WARNING:

Before closing the bonnet ensure that no one is obstructing the closing area and that hands and clothes are clear. Remove tools, cleaning cloths, etc. from the engine compartment.

Bonnet latching: Close the bonnet to within a distance of 250 to 300 mm (10 to 12 inches) of the fully closed position. Place the left hand on the bonnet as shown at (A). Then pressing downwards slam the bonnet shut. This action should engage both the right-hand and left-hand latches.

Should one latch fail to engage, place both hands as shown at (B) above the unletched side and press down firmly on the bonnet until it engages.



CLEANING

2

This section gives full details of the methods and cleaning agents which should be used to achieve the best results and maintain the finish of the vehicle, both internally and externally.

Read carefully the restrictions on the use of jet washes and automatic car washes. Note that convertible models should not be washed in an automatic car wash that has rotating brushes.

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CLEANING

Exterior Care

Valet Kit

A valet kit containing a selection of Car Care products is available from the Jaguar accessory range.

Note: All the cleaning materials mentioned in this section are available from the Jaguar Accessory Range.

Washing

For best results, do not wash the vehicle under strong sunlight. Always allow the vehicle to cool down before washing.

Do not use a dry cloth to wipe dirty paintwork. Dust and gritty substances are abrasive and will scratch the paintwork. Remove dirt using a cellulose sponge and plenty of warm (never hot) water. Rinse off with clean water and dry using a clean, damp chamois leather.

Do not use household soaps or detergents. The use of Jaguar Vehicle Shampoo is recommended.

Do not direct hoses at full force around door and luggage compartment seals and the convertible top. Using high pressure water jets on the paintwork is not recommended.

Do not allow bird droppings or tree sap to harden. Remove from paintwork immediately with a lukewarm soap and water solution.

In winter, when salt is used on the roads, wash the vehicle frequently, and immediately after encountering such conditions. Clean undersides and wheel arches using a high pressure jet.

Automatic Car Wash

Caution – Convertible models: Do not use an automatic car wash that has rotating brushes. The action of the brushes may damage the exterior fabric of the convertible top.

Note: Regular use of automatic car washes tends to dull the lustre of the paintwork.

Before entering the car wash it is essential to:

Switch off the radio to retract the aerial,

Remove wing mounted telephone antennas,

Fold down screen mounted telephone antennas,

Fold in door mounted rear view mirrors.

Note: If your vehicle is fitted with a Jaguar approved cellular telephone, you are advised to switch the telephone and the ignition OFF.

After leaving the car wash, switch on the windscreen wipers immediately to remove water and prevent a build up of wax. Jaguar Screen Clean Paste helps prevent this.

Removing Grease and Tar

Remove grease or tar with Jaguar Tar Remover.

Glass Surfaces

To avoid scratching glass surfaces, do not clean dirty glass with dry paper or cloth. Use clean, warm water and a chamois leather which is reserved for glass only.

The following products will ensure glass surfaces and windscreen wiper blades are kept in good condition:

Jaguar Screen Clean Paste – Apply to the exterior of the windscreen only to ensure effective operation of the windscreen wiper blades.

Jaguar Glass Cleaner – Interior and exterior of all other surfaces.

Jaguar Screen Wash – Washer reservoir additive.

Jaguar De-icer, ice scraper, anti-mist wipe cloth - for use in adverse weather conditions.

Note:

- Renew the wiper blades when worn to prevent scratching.
 Clean regularly with a mild detergent solution.
- The windscreen should be cleaned with Jaguar Screen Clean Paste at every service interval.

Underbonnet cleaning

Underbonnet cleaning using high pressure hoses or steam cleaners should be done by a Jaguar Dealer. The electronic control modules and fuse boxes could be damaged by indiscriminate use of cleaning equipment.

Convertible Top Fabric

Caution - Convertible models:

- Do not use an automatic car wash that has rotating brushes. The action of the brushes may damage the exterior fabric of the convertible top.
- Do not use spot cleaners, chemical dilutents or any organic cleaners on the material.

A regular hand wash with clean water will maintain the convertible top's appearance. Do not wash as often as the paintwork.

Remove bird droppings immediately as the organic acids can adversely affect the rubber in the material.

Dry Cleaning: Using a soft brush and vaxuum cleaner, brush the material in one direction only, from front to rear.

Wet Cleaning: Remove dirt with a soft brush and vacuum cleaner as detailed above. Shampoo with Jaguar Soft Top Cleaner and luke warm water following the instructions. Thoroughly rinse with clean luke warm water and leave to dry thoroughly.

When the top and seals are dry, apply Jaguar Soft Top Water Proofing Spray to top and seals, carefully following instructions. It is only recommended to perform this once or twice a year.

Note: Water cannot pentrate the fabric as there is a rubber interlayer.

CLEANING _

Paint Chips

Scratches and chips should be touched in before weathering action begins. Inspect the paintwork immediately after the vehicle has been washed.

Polishing Paintwork and Chromium Plating

For maximum protection against road dust, salts, industrial fallout etc., it is recommended that the vehicle is polished regularly using Jaguar Polish, Chrome Polish and a Polishing Cloth.

Alloy Road Wheels

Alloy wheels have an anti-corrosion protective coating, which should not be damaged.

Wash the wheels at two week intervals to avoid an accumulation of particles which could become embedded in the wheel surface. In salty conditions the wheels should be cleaned weekly.

Aerial Care

Regular cleaning with a special aerial cleaner, will ensure smooth and reliable operation of the aerial.

Always wipe the aerial in an upwards direction.

Lubricate using an aerial maintenance wipe cloth.

In freezing conditions check that no ice has formed over the top of the aerial, which could prevent it being raised and cause damage to the motor.

The Jaguar Aerial Cleaning Kit contains the necessary maintenance items.

Interior Care

Brush and clean the interior regularly. Use a vacuum cleaner where possible to remove all dust from the interior and trim.

Carpets

Marks or stains can be removed by gentle scrubbing with a weak solution of soap and warm water.

For more stubborn stains a commercially available carpet cleaner should be used. See your Jaguar Dealer for advice.

Headlining

Remove dust in the headlining with a vacuum cleaner. To remove stains, rub briskly without pressing, using a lint–free white cloth, moistened with methylated spirit.

Leather Upholstery

Dust and dirt can penetrate the pores and creases of leather, causing surface wear and brittleness. Clean regularly to maintain the leather in first class condition.

Wipe the surfaces using a cloth dampened with warm soapy water; avoid flooding. Rinse with clean water. Allow to dry and rub with a clean soft cloth. Use Jaguar Leather Cleaner for heavily soiled areas.

Use only mild non-caustic soap. Do not use petrol, detergents or household cleaners, as these could damage the leather.

The appearance and durability can be improved by using Jaguar Hide Food and Jaguar leather Conditioner.

Woollen/Cloth Upholstery

Regular Cleaning

Weekly light vacuuming can extend the life of the fabric.

Using Jaguar Upholstery Cleaner, following the instructions, will preserve and enhance woollen upholstery. Test the upholstery cleaner solution on an unseen part of the seat. Do not over wet.

Caution:

- Never use soap, ammonia, bleach or other cleaners intended for use on hard surfaces.
- Do not use upholstery cleaner on electrical equipment such as fascia switches.

Removing Stains

Most stains on woollen fabric can be removed if treatment is carried out immediately, before the stain has a chance to 'dry-in'.

Keep the necessary cleaning materials in a convenient place.

Most stains can be treated with one of three cleaning fluids: Jaguar Upholstery Cleaner, dry cleaning fluid or clean water.

Mop up excess liquid with absorbent tissue (preferably white) or absorbent cloth; scoop up dry solids. Work inwards from the edge of the stain to prevent spreading. Use small amounts of cleaning liquid, blotting between applications.

Work slowly and thoroughly using light pressure. If the stain cannot be removed, contact a reputable dry cleaners.



✓!\ WARNING:

Dry Cleaning Fluids may be toxic or flammable. Take adequate precautions when handling these products.

ROUTINE CHECKS -

Many of the vehicle's components such as the transmission and final drive are fill-for-life units and do not require checking by the driver. The few maintenance tasks and checks required to ensure reliable and safe day to day running of the vehicle are detailed in this section.

Only use lubricants and fluids which meet the specifications recommended by Jaguar Cars Ltd.

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ROUTINE CHECKS

Regular Checks

In the interests of safety and reliability, it is advisable to carry out the following checks at the recommended intervals, and always before starting on a long journey.

Daily

Check that there is sufficient fuel for the journey intended, particularly at night and before entering motorways.

Weekly

Tyres – Check the tyres, including the spare, for condition and pressure. See SECTION 6 for the recommended tyre pressures.

Lights – Check that all exterior lights and direction indicators function correctly and that the lenses are clean.

Engine Oil – With the vehicle standing on level ground, check the oil level and top up if necessary with oil of the correct grade, see page 26.

Engine Coolant – With the engine cold, check the level of the coolant in the engine header tank. Any loss of fluid must be checked by a Jaquar Dealer.

Brake Fluid – Check the level of the fluid in the brake fluid reservoir. Top up if necessary with new, unused approved brake fluid.

The brake fluid reservoir is initially nearly full, but the level will drop as the brake pads wear. If the level appears unusually low, location of the fluid leakage must be checked by a Jaguar Dealer.

Power Steering Fluid – With the engine cold check the level of the fluid in the power steering fluid reservoir. Top up if necessary with fluid of the correct specification. Any loss of fluid should be checked by a Jaguar Dealer.

Note: The transmission is a sealed for life unit and does not require topping up.

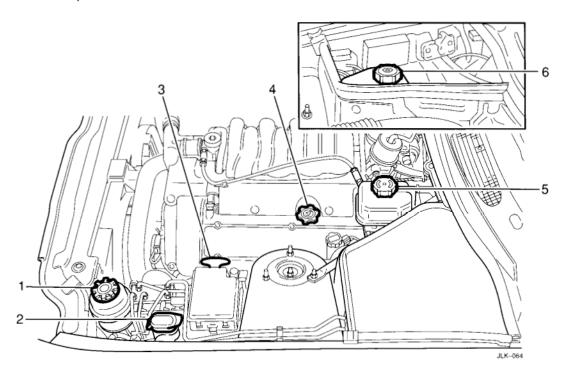
Monthly

Windscreen Washer – Top up with recommended windscreen washer fluid and clean soft water. Check the operation of the washer. Use recommended additives to prevent freezing, i.e Jaguar Windscreen Washer Fluid.

Wiper Blades – Check the quality of the wipe. If smearing or juddering is evident, clean the windscreen as detailed on page 73 and renew the wiper blades.

ROUTINE CHECKS _

Reservoir and Dipstick Locations



- 1. Power steering reservoir
- 2. Windscreen washer reservoir
- 3. Engine oil dipstick

- 4. Engine oil filler
- 5. Coolant filler pressure cap
- 6. Brake fluid reservoir

ROUTINE CHECKS

Check/Top Up Engine Oil Level

Check the oil level regularly with the vehicle on flat, level ground. Refer to page 19 for dipstick and oil filler locations.

It is preferable to check the oil level after the vehicle has been standing, i.e. with the engine completely cold.

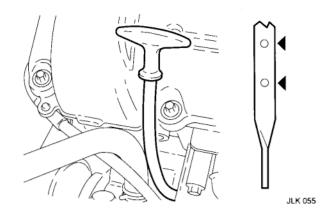
Stop the engine and wait for a minimum of two minutes to allow the oil to drain back into the sump.

Remove the dipstick and wipe clean with a non-fluffy cloth. Replace fully, then withdraw the dipstick.

If the oil level is on or above the lower of the two dots on the dipstick then no additional oil is required.

If the oil level is below the lower of the two dots, remove the oil filler cap and add 1 litre (1.7 pints) of the correct specification oil. Lubricant and fluid specifications are detailed on page 26.

Refit the filler cap and hand tighten securely.



ROUTINE CHECKS

Checking Coolant Level

The coolant level must only be checked when the engine is COLD. See page 19 for coolant header tank location.



✓!\ WARNING:

Do not remove the coolant expansion tank filler/pressure cap while the engine is hot. If the cap must be removed, protect the hands against escaping steam and slowly turn the cap anti-clockwise until the excess pressure can escape. Leave the cap in this position until all the steam and pressure have escaped, and then remove the cap completely.

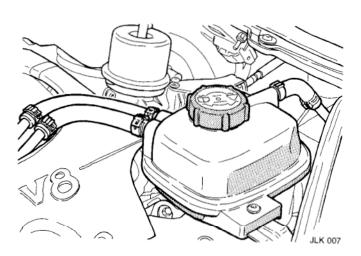
The coolant level should be up to the bottom of the filler neck of the header tank. If persistent coolant loss is noticed have a Jaguar Dealer investigate the cause immediately.

Refit the filler cap and hand tighten securely.

Topping up

Caution: Anti-freeze will damage paintwork. Avoid spillage.

Top up until the coolant is level with the bottom of the filler neck. Use the correct concentration of Jaguar Anti–freeze/Coolant/Corrosion Inhibitor as detailed on page 25.



ROUTINE CHECKS _

Check/Top Up Windscreen Washer/Powerwash Reservoir

See page 19 for windscreen washer reservoir location.

The washer reservoir contains the fluid for the windscreen washers and the headlamp powerwash system (where fitted).

Fill to just below the neck with Jaguar Windscreen Washer Fluid diluted with clean, preferably soft water as specified in the maker's instructions on the bottle.

Do not over-fill

Note: Using a non-approved fluid may adversely affect the wiper blade rubber, resulting in ineffectual and noisy wiping.

Cold Weather Precautions

To prevent damage to the pump under freezing conditions, use recommended Jaguar Windscreen Washer Fluid.

Caution:

- Windscreen washer fluid is toxic and in concentrated form is flammable.
- 2. Under no circumstances must cooling system anti-freeze be used, since this will damage the paintwork.

After adding screen washer fluid to the reservoir, operate the pump until untreated water is purged from the pipes and jets.



ROUTINE CHECKS

Check/Top Up Brake Fluid Reservoir



✓! \ WARNING:

The brake fluid level will drop as the brake pads wear. If the level is very low report the loss of fluid to the nearest Jaguar Dealer. Do not drive the vehicle until the cause is rectified.

Caution:

- While handling brake fluid, take extreme care; brake fluid must not contact the vehicle paintwork.
- Always use fresh, clean fluid from a new container. Never introduce used brake fluid into the system.

See page 19 for brake fluid reservoir location.

The fluid is visible through the translucent casing of the reservoir and must be maintained at the 'MAX' mark.

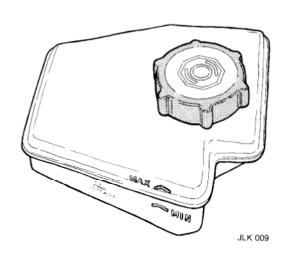
If necessary, top up as follows:

Before removing the cap, clean the reservoir and cap thoroughly with a lint free cloth to ensure that no foreign matter enters the reservoir.

Unscrew the filler cap and top up to the 'MAX' level using new, unused brake fluid of the correct specification. The fluid specifications are detailed on page 26.

Refit the filler cap securely.

Should any brake fluid be spilt, replace the cap on the reservoir before rinsing it away, to avoid contamination.



ROUTINE CHECKS -

Check/Top Up Power Steering Fluid Reservoir

Caution: It is imperative that the power steering system does not become contaminated in any way. Always dispense fluid from a fresh sealed container and clean the area around the reservoir neck both before and after topping up. Never return drained fluid to the system.

See page 19 for power steering fluid reservoir location.

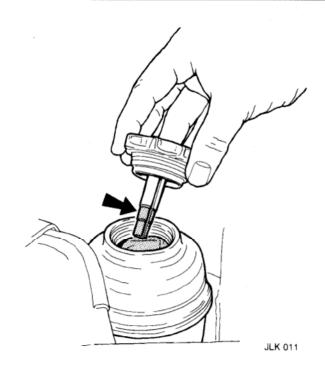
Check the fluid level when the engine is 'COLD' and the vehicle is on a flat, level surface.

Wipe clean and remove the filler cap from the reservoir; take great care to prevent any foreign matter from entering.

Check that the fluid level is between the marks on the dipstick.

If necessary, top up with the correct specification fluid, DO NOT OVERFILL. The lubricants and fluid specifications are detailed on page 26.

Should the level be very low, report the loss of fluid to the nearest Jaguar Dealer.



ROUTINE CHECKS

Cooling System

The cooling system should be filled or topped up with a mixture of 50 per cent plain water and 50 per cent Jaguar Anti–freeze, Coolant and Corrosion Inhibitor conforming to specification ESD–M97B49–A.

This anti-freeze mixture gives frost protection for temperatures down to -36°C (-33°F).

Engine Anti-freeze

Anti-freeze, when used at the correct concentration, not only protects the engine from frost damage in winter, it also provides all year round protection against internal corrosion.

Use only anti-freeze to specification ESD-M97B49-A, inferior quality anti-freeze may be ineffective in maintaining adequate frost and corrosion protection to the cooling system.

The coolant solution may remain in the cooling system for four years or 96,000 kilometre (60,000 miles), after which the cooling system should be drained, flushed and refilled.



WARNING:

Do not allow anti-freeze to make contact with skin or eyes. If this should happen, rinse the affected area immediately with plenty of water.

Engine Block Heater

If the vehicle is to be started at temperatures of –30°C and lower, it is recommended that an engine block heater is fitted and used. Failure to do so may result in damage to the drive belt.

For further information consult your Jaguar Dealer.

Caution: The fitting of an engine block heater does not eliminate (lessen) the need for anti-freeze under freezing conditions.

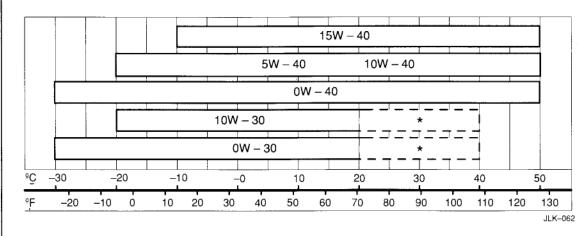
ROUTINE CHECKS

Recommended Lubricants and Fluids

Component	Specification	SAE Viscosity Rating	Comments
Engine – 4.0 litre normally aspirated	API SH / ACEA A2	See chart below	
Power Assisted Steering	Dexron III		
Braking System	IPT Super Dot 4		Use Jaguar Brake Fluid. This is a non–mineral polyglycol based brake fluid

Engine Oil

Recommended SAE Viscosity Range / Ambient Temperature Scale



* This temperature extension is only permitted if the oil is fully synthetic and meets CCMC G5 or ACEA A3 Quality.

ROUTINE CHECKS ¬

Capacities		
	Litres	Imperial Pints
Engine oil	6.5	11.4
The rear axle (Final drive unit) and automatic transmission units are oil filled-for-life and will not normally require to be topped up.		
Cooling system, including reservoir and climate control:		
~ Initial fill	9.5	16.7
Windscreen washer reservoir	7	12.3
Capacities – Fuel Tank		
	Litres	Imperial Gallons
Indicated refill capacity (E to F on fuel gauge)	70.0	15.4
Unindicated capacity (Below E on fuel gauge)	5.0	1.1
Total refill capacity	75.0	16.5

In the event of a flat tyre, drivers should follow closely the procedure for wheel changing and jacking given in this section. The correct jacking points and how to locate them are shown. It is important that only the correct jacking points are used.

Where vehicles have the 'Temporary Use' spare wheel, drivers should be aware of the limitations of its use.

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Spare Wheel and Jacking Equipment

The spare wheel, jacking equipment and wheel chock are stored under the luggage compartment floor panel.

To remove the spare wheel, remove the luggage compartment floor panel and unscrew the retaining screw (A).

The tray containing the jacking equipment kit can be removed from the luggage compartment by unscrewing the yellow securing bolt (B).

The kit comprises: the jack; jack ratchet handle with socket extension; wheel nut wrench with telescopic extension; wheel chock; towing eye and a wheel locking nut extractor tube and key socket (where fitted).

Note: Examine the jack occasionally, clean and grease the threads to ensure it is always ready for an emergency.

Temporary-use Spare Wheel

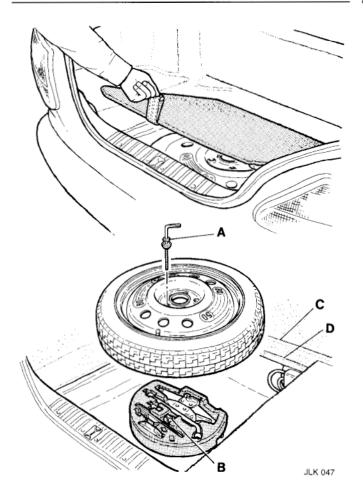
Observe the following warnings before using the wheel.



MARNING:

- 1. Please note temporary-use spare wheel warning label. Adhere to instructions on the label. Failure to comply can be dangerous.
- 2. When a temporary-use spare wheel is fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.
- 3. Do not fit more than one temporary-use spare wheel and tyre assembly at one time.
- 4. The temporary-use spare wheel must be inflated to 410 kPa (4,1 bar, 60 lbf/in2).
- 5. Temporary-use spare wheel, maximum speed is 80 km/h (50 mph).

Note: Maintenance information for the temporary-use spare wheel is the same as given for normal tyres in SECTION 5.



Spare Wheel Stowage

When the temporary-use spare wheel is being used, stow the replaced road wheel in the luggage compartment so that it fits over the jacking equipment tray. Reposition the luggage compartment floor panel in the upper location slots (**C**).

When the temporary—use spare wheel is returned to the luggage compartment, position the wheel with one stud hole directly over the yellow plastic bolt. Fit the retaining screw through the stud hole into the bolt head and tighten down. Refit the luggage compartment floor panel in the lower position (**D**).

Note: Remove the centre badge (see illustration on page 32).

Wheel Changing and Jacking

Be prepared for a flat tyre. Know where equipment is stowed and read the wheel changing and jacking instructions carefully.

Stopping the vehicle

Pull off the road completely, clear of all traffic and park on as level ground as possible. Switch on hazard warning lights.



✓!\ WARNING:

It can be dangerous to change a wheel when the vehicle is on a slope or soft, uneven ground.

Wheel Changing and Jacking (continued)

Remove the temporary–use or full size spare wheel (see page 31) to obtain the jack and wheel changing tools.

When changing wheels, carefully remove the centre badge and transfer it to the replacement wheel (when a full size spare wheel is used).

Loosening the wheel nuts

Always slightly loosen the wheel nuts before raising the vehicle.

A label showing correct use of the wheel nut wrench is printed on its shaft and states:

WHEEL NUT REMOVAL

WHEEL NUT TIGHTEN.





Wheel Changing and Jacking (continued)

Removing locking wheel nuts (where fitted)

Some vehicles are fitted with one locking wheel nut on each wheel. These can only be removed using the extractor tube and key socket from the jacking equipment tray.

The locking wheel nut is provided with a cover which makes it visually similar to standard wheel nuts. The top of the cover has an indentation (**A**) to aid identification.

Push the extractor tube firmly over the locking wheel nut cover, as shown at (**B**), until it is fully located.

Withdraw the extractor tube to remove the cover.

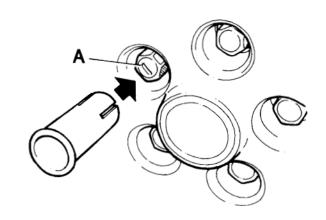
Fit the key socket over the locking wheel nut as shown at (C).

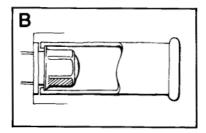
Fit the wheel nut wrench over the key socket and loosen the locking wheel nut.

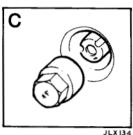
Locking wheel nut security coding

Locking wheel nuts have a letter stamped on their upper surface. The key socket is stamped with a corresponding number. Only key sockets with the correct matching number will fit the locking wheel nut.

Should a new key socket be required, note the letter on the locking wheel nut and contact your Jaguar Dealer. Proof of vehicle ownership will be required.







Wheel Changing and Jacking (continued)

Before lifting the vehicle



✓! WARNING:

Before attempting to lift the vehicle with the jack, chock one of the front wheels to prevent the vehicle from rolling when jacked up.

A folding wheel chock is supplied with the jacking equipment. The chock must be unfolded into a triangular form before use.

Chock the front wheel on the opposite side of the vehicle to the side being jacked up, as detailed below:

Note:

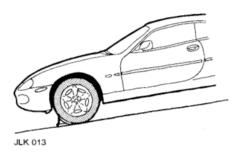
- 1. Ensure that all passengers are in a safe place clear of the vehicle.
- 2. Ensure that the jack is on firm and level ground.
- 3. Firmly apply the handbrake and select position 'P' (Park).

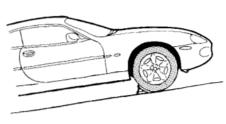
Using the wheel nut wrench with the handle extended, slacken, but do not remove the wheel nuts.

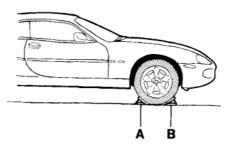
VEHICLE FACING DOWN A SLOPE Chock the front of the front wheel.

VEHICLE FACING UP A SLOPE Chock the rear of the front wheel.

VEHICLE HORIZONTAL Front wheel change: Chock at A. Rear wheel change: Chock at B.







Wheel Changing and Jacking (continued)

Jacking



✓!\ WARNING:

Never work under the vehicle using only the jack as a support, always use axle stands or suitable supports under the jacking points.

Observe the instructions printed on the jack.

Use the jack only for lifting the vehicle during wheel changing, and only use the jack which is stored in the vehicle.

Do not start or run the engine while the vehicle is only supported by a jack.

Note: When one rear wheel is lifted off the ground the automatic transmission 'P' (Park) position will not prevent the vehicle from moving and possibly slipping off the jack.

There are four jacking points, two each side. These are reinforced metal plates (**A**) attached to the sill near each wheel.

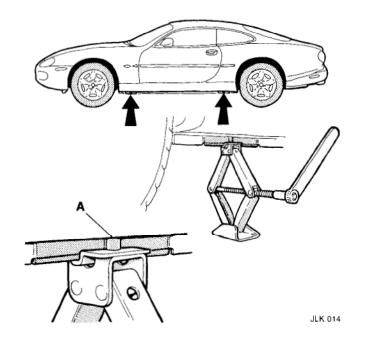
Caution: Never use bumpers or any other part of the body to lift the vehicle.



✓!\ WARNING:

Do not attempt to lift the vehicle unless the sill plate is fully engaged in the jack plate groove.

Place the jack squarely beneath the appropriate jacking point. Fit the extension socket to the jack ratchet head and fit it to the jack. Ensure that the jack plate groove is fully engaged with the sill plate.



Carefully raise the vehicle by turning the ratchet handle.

Note: Stop jacking the vehicle when the tyre just clears the ground. Minimum tyre lift gives maximum vehicle stability. Remove the wheel nuts and the wheel.

Wheel Changing and Jacking (continued)

Fitting the spare wheel.



WARNING:

When using the wheel nut wrench, only use the extension for removing wheel nuts, NOT for tightening.

Fit the spare wheel and secure with the wheel nuts.

Using the wheel nut wrench, lightly tighten the wheel nuts alternately using the sequence shown in the illustration. Ensure that the taper on the wheel nuts is seated fully onto the taper faces of the wheel disc.

Lower the jack and with the wrench handle not extended, tighten the wheel nuts alternately. At the earliest opportunity have the wheel nuts tightened with a torque wrench to 88 - 102 Nm (65 - 75 lbf.ft). This torque must not be exceeded.

Remove the jack from the vehicle.

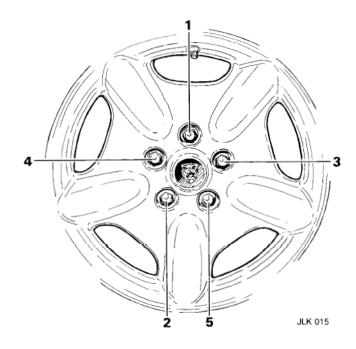


WARNING:

When the temporary-use spare wheel has been fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.

Re-fitting centre badge

Press fit the centre badge into position on the wheel.



Wheel Changing and Jacking (continued)

Stowing the equipment

Remove the chock and fold flat.

Stow the jack, wheel chock and tools in the jacking equipment tray. If removed, refit the tray in the luggage compartment and secure with the yellow securing bolt.

Place the wheel over the tray and refit the luggage compartment floor panel.

Note: When the temporary spare wheel is returned to the luggage compartment, fit and tighten the retaining screw.

Emergency Starting

Rolling Start

A rolling start cannot be achieved on a vehicle with an automatic transmission.

Emergency Starting Using Jump Leads

Both the booster and discharged battery should be treated with great care when using jump leads. Always use high quality leads capable of carrying the starter current of the vehicle to be started.

Before commencing, the following precautions must be taken:

- When the battery of another vehicle is being used, ensure that the vehicles do not touch, or remove the charged battery and place near to, not on, the vehicle with the discharged battery.
- Ensure that both vehicles have all electrical services OFF, the handbrake is ON and the transmission is in Park.
- Where the jump leads are of a different colour, e.g. red and black, use red for positive. This aids identification and helps to avoid crossing positive to negative. Take extra care to avoid crossing the polarity when using cables of the same colour.

Caution:

 If using a jump start vehicle, under no circumstances should the vehicles come into contact with each other.
 This could establish an earth connection, which may cause sparks and damage.

- Do not run the jump start vehicle's engine when boost starting a Jaguar Vehicle. If the jump start vehicle's engine is running and the jump leads are disconnected, damage to the Jaguar vehicle's electrical system will result.
- 3. The booster battery voltage must not exceed 12 volts.

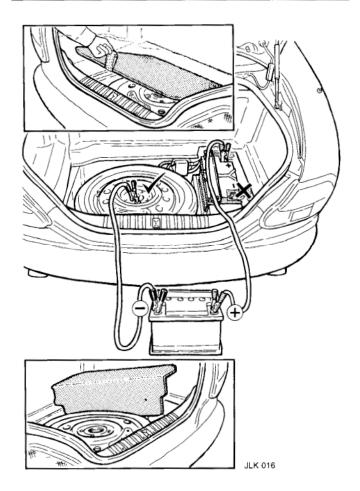
The following procedure must be followed exactly, being careful not to cause sparks.

- Apply the handbrake, select Park and turn off all the vehicles electrical services.
- 2. Remove the luggage compartment floor panels.
- 3. Unclip the positive terminal cover.
- 4. Attach one end of the red jump lead to the positive terminal of the booster battery and the other end to the positive terminal of the discharged battery. Make sure that a good connection is made. Do not allow the vehicles to touch.

Caution: Do not connect the negative jump lead directly to the negative terminal of the discharged vehicle.

5. Attach one end of the black jump lead to the negative terminal of the booster battery and the other end to an earth point on the vehicle being started. (Use the spare wheel retaining bolt as shown on the following page). The earth point must be at least 305mm (12 inches) from the discharged battery. Make sure that a good connection is made.

Continued



- When started allow the engine to idle for five minutes before disconnecting the cables.
- Disconnect the black jump lead from the earthpoint and the booster battery negative terminal. Disconnect the red jump lead from the positive terminals of both batteries.

Note: Disconnection is done in the reverse order to the connecting procedure.

- 8. Refit the positive terminal cover and the floor panels.
- 9. Refit the luggage compartment floor panels.

Vehicle Recovery

The preferred vehicle recovery method is by using a flat bed transporter or rear suspended tow. The front and rear towing eyes are primarily for emergency use when towing for SHORT DISTANCES, e.g. removing the vehicle if it is causing an obstruction or for winching the vehicle onto a recovery transporter.

Transporting

If the vehicle is being transported on a trailer or vehicle flat bed transporter, the handbrake must be applied, the wheels chocked and the gear selector lever moved to position 'N' or 'D' but NEVER to 'P'.

The vehicle must be securely tied down to the transporter or trailer. Do not attach tie-down hooks to the towing eyes.

Suspended Towing

Ensure that the recovery team follow these instructions:

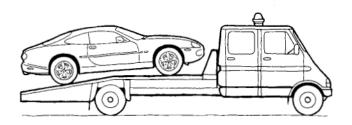
Do not tow with sling-type equipment since damage to the bodywork may result.

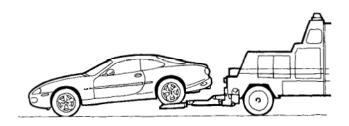
Caution: Do not tow vehicle by suspending the front end.

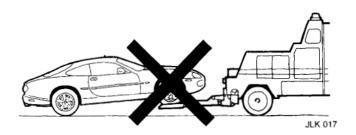
- 1. Remove the key from the ignition switch.
- Raise the rear of the vehicle using a 'spectacle frame' type lifting device where a cradle is positioned under each rear wheel, as indicated.

Vehicles with Defective Automatic Transmission

The vehicle must be towed with the rear wheels clear of the ground).







Towing Eyes



WARNING:

The vehicle must not be driven with a towing eye fitted to a front tow point.

Caution:

The towing eyes are not suitable for 'solid bar towing'.

Care must be taken to avoid damaging the bumpers and front apron.

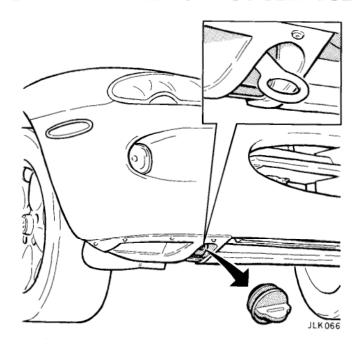
The front towing eye is detachable. When not in use it is stowed in the jacking equipment kit (see page 30). To use, remove the blanking plug from the front cross—member, on the driver's side and screw the eye into the threaded drilling. The blanking plugs are a push—fit in the towing eye threads.

The rear eye is welded to the right-hand side of the luggage compartment underfloor panel.

Always obey towing regulations: In certain countries the registration number of the towing vehicle and an 'ON TOW' sign or warning triangle must be displayed in a prominent position at the rear of the vehicle being towed.

When being towed, the vehicle's gear selector lever must be in neutral (position 'N') with the ignition key turned to position 'II' to release the steering lock and render the indicators, horn and brake lights operational.

Vehicles may be towed for SHORT DISTANCES (maximum 0.8 kilometres/0.5 miles) with the gear selector lever in position 'N' provided a speed of 48 km/h (30 mph) is not exceeded.





WARNING:

When the engine is not running the steering and brakes will no longer be power-assisted. Therefore, be prepared for relatively heavy steering and the need for greatly increased brake pedal pressure.

Fuses and Fuse Boxes

Fuse failure is signalled by an inoperative circuit.

Do not fit a new fuse if damage to the wiring is found; contact a Jaguar Dealer. After renewing a fuse have the circuit checked by a Jaguar Dealer.

Spare fuses and a special tool for removing the fuses are supplied underneath the electrical carrier lid in the luggage compartment.

Use only the spare fuses supplied. Replace the spare with a Jaguar approved fuse of the same amperage rating.

Checking and Renewing a Blown Fuse

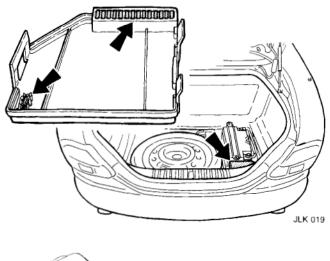
Make sure the new fuse is the correct rating (amperage). Fuses are colour coded according to the amperage and the rating is also marked on each fuse. The colour code is as follows:

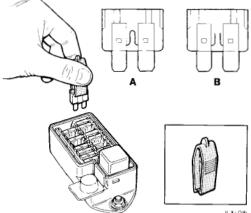
TAN	5 amp	CLEAR	25 amp
RED	10 amp	LIGHT GREEN	30 amp
LIGHT BLUE	15 amp	BRIGHT ORANGE	40 amp.
YELLOW	20 amp		

Push the tool on to the suspect fuse and withdraw it. If the wire in the fuse is broken, the fuse has blown.

A – Fuse in good condition. B – Blown fuse.

Fit a new fuse using the tool.





Fuse Box Locations

There are five separate fuse boxes fitted to the vehicle, each one containing fuses protecting a different group of circuits.

Some fusebox locations change with left-hand drive and right -hand drive vehicles. In these cases the terms 'driver's side' and 'passenger's side' have been used.

There are two types of fusebox:

type A - 18 way with one relay.

type B - 22 way with seven relays

The locations are as follows:

Type A Fuseboxes

B Engine compartment fuse box (right-hand drive vehicles) – Passenger's side, within bulkhead extension.

or:

- C Engine compartment fuse box (left-hand drive vehicles) Passenger's side, within bulkhead extension.
- D Fascia fuse box Driver's side, on the end of the fascia behind the removable panel.
- **E** Fascia fuse box Passenger's side, on the end of the fascia behind the removable panel.

Note: Left-hand drive vehicle shown.

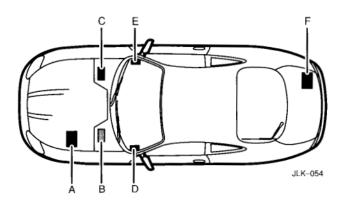
Type B Fuseboxes

- A Engine compartment fuse box Left–hand side, behind the windscreen washer reservoir.
- **F** Electrical carrier fuse box Luggage compartment.



WARNING:

- Do not fit a fuse of a different amperage from that specified on the Master Label. The electrical circuits may become overloaded with the subsequent possibility of a fire.
- No attempt should be made to repair a fuse that has blown. This may cause a fire hazard or serious damage elsewhere in the electrical circuit.



Engine Compartment Fuseboxes

There is one fusebox in the main engine compartment, located on the left-hand side, behind the windscreen washer reservoir.

Caution: When the fuse box lid is removed, take care to protect the box from moisture, and refit the lid at the earliest opportunity.

Remove the fusebox lid by pressing the retaining lugs and lifting. When refitting, press the fusebox lid in the area of the retaining lugs until the lid engages.

The circuits protected are listed on page 49.

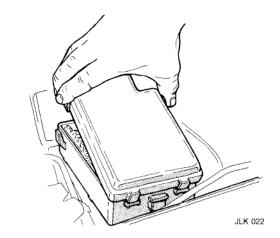
A second fusebox is situated within the bulkhead extension on the passenger's side.

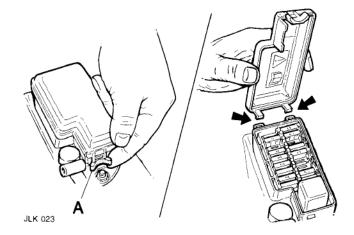
Note: The bulkhead extension protects electrical components from the heat generated in the engine compartment.

Remove the fusebox lid by compressing and lifting the 'U' shaped latching mechanism (\mathbf{A}).

To refit the fusebox lid, position into the slots and push down until the latching mechanism is engaged.

The circuits protected are listed on page 46.





Fascia fuseboxes

Fuseboxes are located at the extreme ends of the fascia, one on the driver's side and one on the passenger's side.

Pull the raised lip of the cover to access the fusebox.

The circuits protected are listed on pages 47 and 48.

Luggage Compartment Fusebox

A fusebox is located in the electrical carrier which is situated to the rear of the battery.

A list of protected circuits and fuse ratings is given on the fuse allocation chart (Master Label) which is attached to the lid of the electrical carrier.

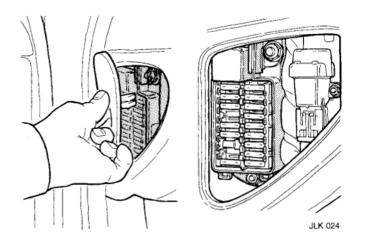
Caution: When the carrier lid is removed, take care to protect the box from moisture ingress, and refit the lid at the earliest opportunity.

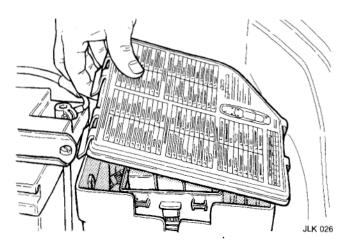
Remove the luggage compartment floor panel.

Remove the electrical carrier lid by pulling the retaining clips and pulling the lid upwards.

Spare fuses and a special tool for removing the fuses are supplied underneath the electrical carrier lid in the luggage compartment. Reposition the lid and press down until the retaining clips engage.

The circuits protected are listed on page 50.





ROADSIDE EMERGENCY SERVICE _____

Fuse Ratings and Circuits

Engine Compartment Fusebox Passenger Side – Within Bulkhead Extension

Fuse No	Rating (amps)	Circuit
1	-	Not used.
2	_	Not used.
3	25	Starter solenoid.
4	5	Engine control module, transmission control module.
5	10	Injector supply.
6	-	Not used.
7	_	Not used.
8	10	Air conditioning compressor clutch.
9	30	Throttle motor.
10	5	Engine control module, throttle mechanical guard, cruise control VSV 1 and 2 (where fitted).

Fuse No	Rating (amps)	Circuit	
11	-	Not used.	
12	10	Air flowmeter, VVT solenoids, radiator fans control module.	
13	-	Not used.	
14	10	HO2S sensor heaters (where fitted), EGR valve (where fitted), EVAP valve, ignition coils relay, throttle motor relay, AC compressor clutch relay.	
15	30	Windscreen left-hand heater.	
16	5	Engine control module cooling fan.	
17	30	Windscreen right-hand heater.	
18	10	Ignition coils supply.	

B or C on location illustration, page 43.

Fascia Fusebox - Driver's Side

Fuse No	Rating (amps)	Circuit	
1	20	Driver's seat control module.	
2	10	Door mirror heaters.	
3	30	Windscreen wiper motor relays.	
4	10	Airbag.	
5	15	Body processor module (5V logic and lamps)	
6	5	Centre console switches, key transponder module, convertible top header console.	
7	15	Body processor module (battery supply for solenoids, lamps and motors)	
8	5	Steering column adjust switch, driver's seat switchpack, driver's seat belt buckle switch.	
9	-	Not used.	
10	5	Diagnostic connector (ignition).	
11	20	Air conditioning drivers blower motor.	

Fuse No	Rating (amps)	Circuit
12	10	Door mirror heaters relay, Air conditioning: compressor lock, control module ignition supply, blower motor relays, power steering control module.
13	5	Diagnostic connector (battery).
14	10	Cruise control ON/OFF switch, main instrument cluster, catalytic converter over temperature warning control module.
15	25	Driver's door control module, transit relay.
16	5	Electrochromic interior mirror (where fitted), windscreen heater relay, gear selector, transmission mode switch.
17	10	Accessory sockets.
18	5	Main instrument cluster.

D on location illustration, page 43.

ROADSIDE EMERGENCY SERVICE _____

Fascia Fusebox - Passenger's Side

Fuse No	Rating (amps)	Circuit
1	20	Passenger seat control module.
2	10	Door locking actuators.
3	-	Not used.
4	5	Door switchpacks, door locking.
5	5	Telephone transceiver and RT connector.
6	10	Air conditioning control module.
7	20	Body processor module (column motor power).
8	5	Passenger seat switchpack, passenger seat belt buckle switch.
9	10	Radio/cassette head unit.
10	5	Telephone handset and transceiver.

Fuse No	Rating (amps)	Circuit
11	20	Air conditioning passenger's blower relay.
12	5	Radio/cassette unit.
13	_	Not used.
14	20	Cigar lighter.
15	25	Passenger door control module, transit relay connector.
16	5	Airbag control module.
17	15	Body processor module (light, high power sockets).
18	10	Dimmer control module.

E on location illustration, page 43.

Engine Compartment Fusebox - Left-hand Side

Fuse No	Rating (amps)	Circuit
1	10	Transmission control module.
2	_	Not used.
3	5	Security sounder, headlamp levelling motors, headlamp levelling switch, ignition +Ve, centre console switchpack.
4	5	ABS control module.
5	10	Alternator regulator, starter relay, engine control module.
6	10	Right-hand dipped beam headlamp.
7	30	Power wash pump.
8	10	Left-hand dipped beam headlamp.
9	10	Security sounder.
10	_	Not used.
11	10	Right-hand horn.

Fuse No	Rating (amps)	Circuit
12	30	Cooling fans series/parallel.
13	10	Left-hand horn
14	30	Cooling fans parallel.
15	10	Air conditioning coolant pump.
16	30	ABS control valves.
17	15	Front fog lamps.
18	30	ABS pump motor.
19	10	Right-hand main beam headlamp.
20	_	Not used.
21	10	Left-hand main beam headlamp.
22	-	Not used.

A on location illustration, page 43.

ROADSIDE EMERGENCY SERVICE _____

Luggage Compartment Fusebox - Electrical Carrier

Fuse No	Rating (amps)	Circuit
1	5	Coupe: Reversing lamps.
		Convertible: Reversing lamps, rear quarter windows raise/lower relays.
2	20	Adaptive damping control module.
3	5	Fusebox ignition +Ve, bulb monitoring control module.
4	5	Adaptive damping control module.
5	5	Airbag.
6	5	Right and left-hand stop lamps via bulb monitoring control module.
7	20	Fuel pump.
8	5	High mounted stop lamp.
9	10	Antenna motor, remote power amplifier (premium sound system only).
10	10	Security and locking control module.
11	10	Accessory sockets.
12	20	Coupe: Not used
		Convertible: Right-hand rear quarter window lift motor.

Fuse No	Rating (amps)	Circuit	
13	-	Not used.	
14	40	Coupe: Not used	
		Convertible: Raise and lower pump for convertible top.	
15	10	Fog lamps.	
16	_	Not used.	
17	25	Heated rear screen.	
18	_	Not used.	
19	5	Right-hand tail, left-hand and right-hand number plate lights.	
20	20	Coupe: Not used	
		Convertible: Left-hand rear quarter window lift motor.	
21	5	Left-hand tail, left-hand and right-hand sidemarker lights.	
22	_	Not used.	

F on location illustration, page 43.

Control Modules Identification and Location

Control Module	Location
Anti-lock Braking System and Traction Control	Engine compartment, driver's side. Mounted below the ABS hydraulic control unit.
Transmission	Engine compartment, passenger side, within bulkhead extension.
Engine Management	Engine compartment, passenger side, within bulkhead extension.
Body Processor	Fascia , mounted on passenger airbag bracket.
Driver's Seat	Driver's seat cushion frame.
Passenger's Seat	Passenger's seat cushion frame.
Driver's Door	Driver's door, forward of the glass guide above the speaker.
Passenger's Door	Passenger's door, forward of the glass guide above the speaker.
Security and Locking	Luggage compartment electrical carrier to the rear of the battery.
Climate Control	Fascia, right–hand side of the climate control unit.

Control Module	e Location	
Adaptive Damping	Luggage compartment, rear, right of the spare wheel well.	
Dimmer	Fuse box on the right-hand end of the fascia.	
Airbag (Supplementary Restraint System)	Fascia right-hand side. Behind the glove compartment liner or the driver's knee bolster	

ROADSIDE EMERGENCY SERVICE _____

Relay Identification and Location

The following chart identifies and gives locations for the relays which control the vehicle's electrical services. The relays have coloured harness connectors and cases for identification. Where the connector colour differs from the case, both colours will be listed (connector colour first).

Relays, where not mounted in a fusebox, are arranged in groups of three. Each group has a black plastic cover, which slots into the harness connector and can be easily removed for access.

Where relays are referred to as being on the left or right-hand side, the location is the same for both left-hand drive and right-hand drive vehicles.

Location	Functions	,,	Case Colour
Engine compartment fusebox, left-hand side, to the rear of the windscreen washer reservoir.	Layout as diagram:		
	R1 Air conditioning water pump.		Brown
	R2 Front fog lamps.	1 2 3 4 5 6	Brown
	R3 Main beam headlamps.		Brown
	R4 Power wash (where fitted).		Brown
	R5 Dipped beam headlamp.		Brown
	R6 Horn.		Brown
	R7 Ignition.		Brown
Luggage compartment fuse box, to the rear of the battery, under the electrical carrier lid.	Layout as diagram:		
	R1 Rear fog lamps.	1 2 3 4 5 6 7	Brown
	R2 Heated rear window.		Brown
	R3 Tail and number plate lights.		Brown
	R4 Fuel pump.		Brown
	R5 Stop lamps.		Brown
	R6 Accessory socket (Dealer fit option)		Brown
	R7 Ignition.		Brown

Relay Identification and Location (continued)

Location	Functions	Case Colour
Luggage compartment to the rear of the battery, under the electrical carrier lid (convertible vehicles only). Note: Micro relays operate rear quarter window functions.	Right to left:	
	Rear quarter windows down, right-hand side.	Violet
	Rear quarter windows up, right-hand side.	Violet
	Rear quarter windows down, left-hand side.	Violet
	Rear quarter windows up, left-hand side.	Violet
	Convertible top lower.	Black
	Convertible top raise.	Black
Engine compartment passenger side fuse box, within bulkhead extension.	Engine management system control.	Brown
Driver's side fuse box at the end of the fascia	Ignition.	Brown
Passenger's side fuse box at the end of the fascia.	Auxiliary.	Brown
Engine compartment right-hand side, within bulkhead extension.	From front of vehicle to rear:	
	Starter.	Brown
	Left-hand front screen heater (If fitted)	Brown
	Right-hand front screen heater (If fitted)	Brown
Engine compartment passenger side, within bulkhead extension.	Looking forward from left to right:	
	PI main (injectors)	Brown
	Throttle motor power	Brown
	Ignition coil.	Brown

ROADSIDE EMERGENCY SERVICE _____

Relay Identification and Location (continued)

Engine compartment left-hand side within bulkhead extension.	From front of vehicle to rear:	
	Air conditioning clutch.	Brown
	Wiper on/off.	Black
	Wiper fast/slow.	Black
Behind the fascia on the left-hand side as viewed from the driver's seat.	Door mirror heater.	Blue
Behind the fascia on the right-hand side as viewed from the driver's seat.	From front of vehicle to rear:	
	Door lock.	Violet
	Air conditioning isolate	Violet
Footwell, mounted on the left-hand side of the transmission tunnel.	From front of vehicle to rear:	
	Left-hand blower	Blue
	Right-hand blower	Blue

Drivers are responsible for ensuring that the vehicle is regularly serviced at the correct mileage/time intervals as specified in the 'Maintenance Schedules'. The first part of this section deals with regular servicing.

The condition of the tyres is of the utmost importance. Advice about tyre wear and correct usage is given in this section. If in any doubt about the condition of your tyres, contact a Jaguar Dealer.

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Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and the vehicle meets its specification.

Regular maintenance and servicing is the responsibility of the owner. Jaguar Dealers will be pleased to arrange periodic servicing in accordance with the 'Service Record and Warranty Book' and 'Maintenance Schedules' booklet.

Failure to implement maintenance at the recommended intervals could result in deterioration of vehicle performance and possible infringement of regulations.

Tyres

Tyres of the correct type and dimensions, with correct cold inflation pressures are an integral part of every vehicle's design. Regular maintenance of tyres contributes not only to safety, but to the designed function of the vehicle. Road–holding, steering and braking are especially vulnerable to incorrectly pressurised, badly fitted or worn tyres.

Tyres of the correct size and type but of different make have widely varying characteristics. It is therefore recommended that Jaguar approved tyres (see SECTION 6: Wheel/Tyre Data) are fitted to all wheels.

Do not interchange tyres from side to side, front to rear or vice versa as tyre wear produces characteristic patterns depending upon their position and, if the position is changed after wear has occurred, the performance of the tyre will be adversely affected.

Note:

- On certain models the rear wheel and tyre assemblies will be larger than the front. These larger assemblies must never be fitted to the front of the vehicle.
- On certain models the tyres specified may be of a directional type. These tyres must be fitted so that when viewed from the side of the vehicle the tyre "direction of rotation" arrow points in the vehicle direction, when positioned at the top of the tyre.

Australia only: Australian legislation requires every vehicle to display a tyre recommendation placard in an accessible location, giving information specific to the vehicles wheel and tyre equipment.

Tyre Repair

It is recommended that damaged tyres are discarded and new tyres fitted. They must not be repaired in view of the high performance capability of the vehicle.

Tyre Use After Vehicle Storage

After a long period of a vehicle standing, tyres may become locally distorted with a flat area. This will cause an uneven ride for a few miles until the tyres have warmed up and the 'flat' rounds off.

However, to reduce the effects of flat-spotting, the tyres of a stored vehicle may be inflated to 300 kPa (3.1 kg/cm³, 44 lb/in²).

Refer to SECTION 6, Recommended Tyre Pressures for normal operating pressures.

Tyre Size, Type, Pressures

The tyre pressures recommended (See SECTION 6:Tyre Data) provide optimum ride and handling characteristics for all normal operating conditions. The pressures should be checked, and correctly set, if necessary, once per week. This should be done with the tyres cold. Tyre temperatures and pressures increase when running. Deflating a warm tyre to the recommended pressure will result in under-inflation which may be dangerous.

A slight natural pressure loss occurs with time. If this exceeds 14 kPa (0,14 kg/cm², 0,14 bar, 2 lbf/in²) per week, the cause should be investigated and rectified.

In compliance with German Road Traffic Law the size of the wheel rims is stamped or cast on all wheels.

It is an offence in the United Kingdom and certain other countries to drive a vehicle with tyres that are not inflated in accordance with the vehicle's proper use.

A vehicle fitted with winter tread tyres must only be driven at speeds below the figure moulded into the tyre's side-wall. If no figure is shown, drive only at moderate speed.

Tyre Renewal

When renewal of tyres is necessary it is preferable to fit a complete vehicle set. Should either front or rear tyres only show need for renewal, new tyres must be fitted, as axle sets, to replace worn ones.

Note: After new tyres have been fitted the wheels need to be dynamically balanced.

The radial ply tyres specified are designed to meet the high-speed performance capability of this vehicle.

Only tyres of identical specification as shown in SECTION 6: Wheel/Tyre Data must be fitted. Do not fit tyres with a different tread pattern, size or speed rating.

Damage

Excessive local distortion can cause the casing of a tyre to fracture and may lead to premature failure. Tyres should be examined especially for cracked walls, exposed cords, etc. Flints and other sharp objects must be removed from the tyre tread; if left in they may work through the cover. Clean off any oil or grease contamination by using a suitable cleaner.

Caution: Do not use paraffin (kerosene), which has a detrimental effect on rubber.

VEHICLE MAINTENANCE _____

Wear

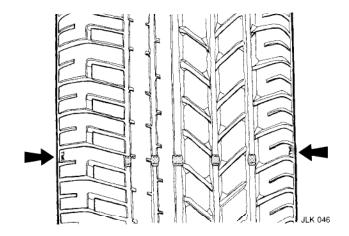
All tyres fitted as original equipment include tread wear indicators (TWI) in their tread pattern. When the tread has worn to a remaining depth of 1,6 mm (0.063 inch) the indicators appear at the surface as bars which connect the tread pattern across the full width of the tyre.

It is illegal in the United Kingdom and certain other countries to continue to use tyres after the tread has worn to less than

1,6 mm (0.063 inch) over three quarters of the width and the entire circumference of the tyre.

It should be noted that the properties of many tyres alter progressively with wear. In particular the 'wet grip' and aquaplaning resistance are gradually but substantially reduced. Extra care and speed restriction should therefore be exercised on wet roads as the effective tread depth diminishes.

Incorrect wheel alignment will accelerate tyre wear. Fins on the inner or outer edges of the tread pattern are caused by excessive toe–in or toe–out respectively. As fins may also be caused by high cornering speeds or road camber, it is advantageous to have the cause detected by having the wheel alignment checked.



Winter (Snow) Tyres

The tyres fitted as original equipment are designed with a rubber compound, tread pattern and width specially suited for high speeds in normal road conditions, but they are less suitable during extremes of low temperatures, snow and ice. The use of winter tyres will considerably improve the vehicle's handling during these conditions.

Winter tyres must be used in vehicle sets, i.e. fitted on all four wheels, see SECTION 6: Tyre Data for recommended tyres and tyre pressures.

Snow Chains

Snow chains, of the recommended type, may be fitted **only** when using 16 inch road wheels with 225/60 R16 winter tyres or 17 inch roadwheels with 245/50 ZR17 tyres. Snow chains must be fitted to the **rear wheels only**. Contact **y**our Jaguar Dealer for details and availability of approved snow chains.

The maximum speed when using snow chains is 48 km/h (30 mph).

Remove the snow chains immediately the roads are clear of snow.

Ensure the fitting instructions supplied with the snow chains are kept in a safe place, i.e. the Vehicle Care literature pack.

Care of Wheels

The wheels are covered with a protective coating. To prevent corrosion it is essential that this coating is not damaged.

When removing or fitting tyres always advise the tyre fitter to treat the wheels with great care and to only use equipment with spigot or stud hole clamping. The equipment must not have any moving parts which contact the wheel, and tyre levers must not be used.

Always ensure that the wheel nuts are fully seated before finally tightening the nuts in alternate sequence.

Battery

A low maintenance battery specifically designed for use with this vehicle is fitted in the luggage compartment.

Under normal operating conditions the battery requires minimal maintenance. However, in hot weather conditions it is advisable to check the battery electrolyte levels at regular intervals.



WARNING:

- The cell plugs and vent pipe must be in place at all times when the battery is in the vehicle. Failure to fit, or incorrect fitting of these items is potentially hazardous.
- To avoid injury do not use an open flame or cause an electric spark when checking the battery. Hydrogen gas generated by the battery is flammable and may explode.
- Do not connect any 12 volt equipment (for example, a 12 volt lead lamp), directly to the battery terminals. Use the cigar lighter socket for temporarily connecting Jaguar approved accessories.
- Do not let battery acid come into contact with skin or eyes. If you get electrolyte in your eyes or on your skin, immediately rinse with cold water and consult a doctor.

Caution:

- Switch off current before disconnecting battery terminals. Always disconnect the earth terminal first and reconnect last.
- Do not let battery acid come into contact with painted surfaces or fabric.

The exterior of the battery should be occasionally wiped clean to remove any dirt or grease.

If a new battery is to be fitted, it must be the same type as the original. The use of unapproved batteries is not recommended and could invalidate the vehicle warranty.

Note: The service life of the battery is dependent on its condition of charge. It must always be sufficiently charged for the battery to last an optimum length of time.

We recommend that the battery charge is checked frequently if the vehicle is used mostly for short distance trips, or if it is not used for long periods of time.

Alternator

To prevent damage to the alternator, do not run the engine while the battery or any of the charging circuit cables are disconnected.

The alternator has polarity–sensitive components that may be irreparably damaged if subjected to incorrect polarity. Ensure that the battery earth lead is always connected to the battery **negative** terminal.

Check/Top Up Battery Electrolyte

Note: In normal climates this must be carried out at least once a year. In hot weather/climates the electrolyte level must be checked at least every three months.

Remove the luggage compartment floor panel and the right-hand side panel.

Unscrew the six cell plugs. Check that the electrolyte is level with the plastic level indicator (**A**). If necessary, top up with distilled water but do not overfill. If illumination is required, use a hand-held flashlight to inspect the electrolyte level.

Refit the six cell plugs.

Refit the floor panels.

Battery Charging



WARNING:

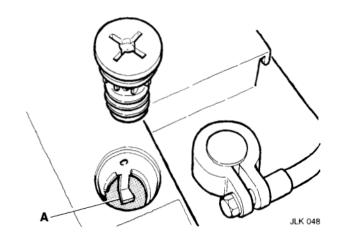
Batteries produce combustible gas (hydrogen) when being charged. The battery must be removed from the vehicle before charging commences.

To disconnect the battery, refer to Battery Lead Disconnection on page 62.

When charging the battery ensure that the charge voltage is the same as the nominal voltage of the battery.

Switch off the charger before connecting or disconnecting terminal connections to avoid sparks and short circuits.

Ensure that the charger positive (+) lead is connected to the positive (+) terminal of the battery and the negative (-) lead is connected to the negative (-) terminal of the battery.



Do not remove or loosen any of the cell plugs when charging the battery.

Check, and if necessary top-up the electrolyte level when the battery is fully charged.

Clean and Grease Battery Connections

Disconnect the battery leads as detailed in battery disconnection on page 62.

Clean the battery posts and coat the post bases with petroleum jelly.

Reconnect the battery leads as detailed in battery connection on page 62.

Battery Lead Disconnection

Note: Upon battery disconnection, both trip computer memories (A and B) will be erased. On reconnection the radio will require recoding and the clock will need to be reset.

Remove the luggage compartment floor panel and the right-hand side panel (where fitted).

Caution:

- Under no circumstances should a battery be disconnected whilst the ignition circuit is live, as permanent damage to the instrument pack may occur.
- Leave windows partially open if access to the vehicle interior is required (automatic window drop for door opening will not function with battery disconnected).
- 3. Disconnect the negative lead (earth terminal) first.

Unclip the battery positive terminal cover.

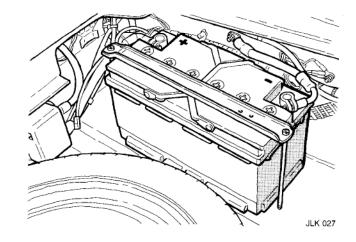
Slacken the **negative** lead pinch bolt (10mm spanner required) and disconnect the **negative** (–) battery lead. Slacken the **positive** lead pinch bolt and disconnect the **positive** (+) battery lead.

Battery Lead Connection

Whenever either or both battery cables are disconnected, a **minimum of 30 seconds MUST** elapse between disconnection of the first cable and reconnection of the last cable.

A 'clean' final reconnection must always be made. Should the cable make temporary contact only, wait another 30 seconds before making the final reconnection.

Caution: Do not overtighten the pinch bolts.



Connect the **positive** (+) lead, tighten the pinch bolt and clip the positive terminal cover on the battery.

Connect the **negative** (-) lead and tighten the pinch bolt.

Refit the floor panels.

After the battery has been reconnected and the ignition switch is turned to position 'II', the message centre display will initially show an erroneous reading i.e. —————. This will remain until after the bulb check sequence, when the correct recorded mileage will be displayed.

This is a normal function of the instrument pack.

Battery Lead Connection (continued)

Note: After battery disconnection, the door windows need to be reprogrammed to 're-learn' the upper and lower limits of travel. This simple procedure is explained fully in the Driver's Handbook, SECTION 2.

Reset the clock to the correct time.

The radio cassette player display will indicate 'code'. The radio will not operate until the correct security code has been re-entered. Refer to the Sound System Handbook.

Bulb Renewal

It is important that only Jaguar bulbs of the type specified on page 72 are used when renewing bulbs.

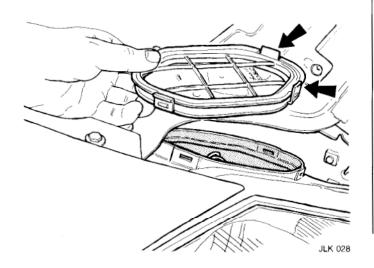
Before renewing bulbs, switch off the ignition and light switches.

Headlamp - Bulb Renewal

Caution: These bulbs are halogen types and will be damaged if touched by hand or contaminated with oil or grease. It is important to use clean gloves or cloth when handling a bulb which is to be used again. A contaminated bulb may be cleaned with methylated spirit before refitting.

Main Beam, Front Direction Indicator and Side Light Access

Access to the headlamp unit for main beam, front direction indicator and side light bulb renewal, is through the clear hexagon cap at the rear of the headlamp unit.



Open the bonnet and remove the hexagon cap by squeezing the two lower clips arrowed.

When refitting the hexagon cap make sure the seal is in place.

Front Fog Lamp - Bulb Renewal

It is recommended that the front fog lamp bulbs are renewed by a Jaguar Dealer.

Remove the hexagon access cap as described on page 63.

Main Beam - Bulb Renewal (A)

Rotate the bulb holder anti-clockwise by a quarter of a turn to remove from the headlamp unit. Lift the plastic spring clips (**B**) and remove the bulb assembly from the harness connector. Remove the bulb and fit a new one of the correct type, see page 72. Refit the bulb assembly to the harness connector. Refit the assembly into the headlamp unit.

Front Direction Indicator - Bulb Renewal (C)

Turn the direction indicator bulb holder a quarter turn and remove. Remove the bulb and fit a new one of the correct type, see page 72.

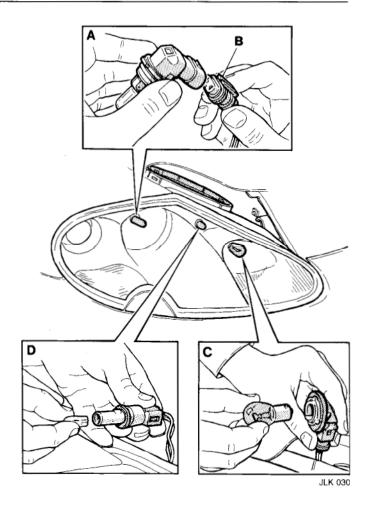
Front Parking (Side) Light - Bulb Renewal (D)

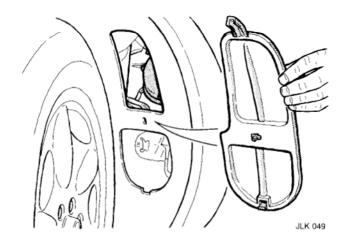
Rotate the bulb holder a quarter turn and remove from the headlamp.

Pull the bulb from the holder and fit a new one of the correct type, see page 72.

Reposition the bulb holder in the headlamp unit and rotate a quarter turn.

Refit the hexagon access cap as described on page 63.





Dip Beam Bulb Access

Access to the dip beam bulb is as follows:

Turn the front wheels to allow free access to the wheel arch.

Remove the wheel arch access panel by rotating the centre fastener and lifting the lower retaining clip.

Turn the cap at the back of the dip beam a quarter turn anti-clockwise and remove.

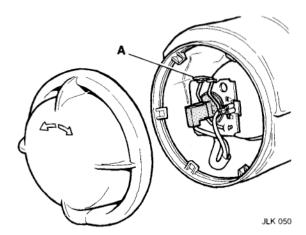
When refitting the cap make sure the seal is in place.

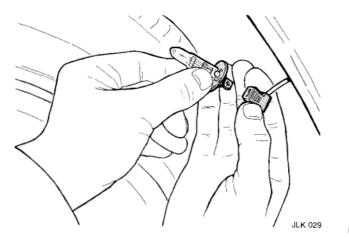
Dip Beam - Bulb Renewal

Push the spring retainer ($\bf A$) to the right and rearwards to release. Remove the bulb holder.

Remove the bulb and fit a new bulb of the correct type, see page 72.

Refit the bulb holder and the spring retainer.





Rear Light Assembly - Bulb Renewal

The rear light assembly has the following bulbs

- (A) Fog light.
- (B) Tail light.
- (C) Stop light.
- (D) Reverse light.
- (E) Direction Indicator.

Ensure that the lights and ignition switch are OFF before removing any bulbs.

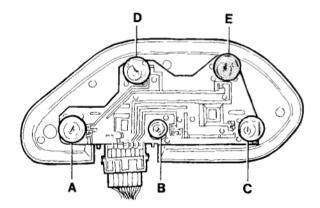
Open the luggage compartment and pull the flap on the seal retainer to expose the rear light connector.

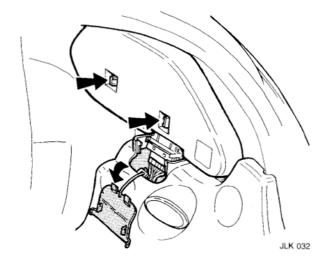
Squeeze the clips on the rear of the unit together and remove the bulb carrier.

Remove the faulty bulb and fit a new one of the correct type, as illustrated on the bulb holder, fitment of the correct type is essential, see page 72.

Reposition the bulb carrier and snap into place.

Clip the boot seal retainer flap back into position.





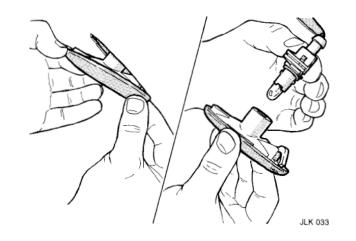
Side Repeater Flasher - Bulb Renewal

Remove the light unit from the front wing panel by pressing the unit forward or rearward to compress the spring clips behind the panel. This will allow the unit to be removed.

Twist the bayonet bulb holder anti-clockwise and remove. Pull out the bulb a fit a new one of the correct type, see page 72.

Refit the bulb holder.

Refit the lamp unit into the front wing.



Number Plate Light - Bulb Renewal

A special tool is required to remove the trim to give access to the number plate light. It is recommended that number plate bulb is renewed by a Jaguar Dealer.

High Mounted Stop Light - Interior and Exterior - Renewal

Both types of high mounted stop lights have 16 LEDs. Should one or more of these LEDs fail, then the unit may cease to meet legal requirements and must be renewed immediately by a Jaguar Dealer.

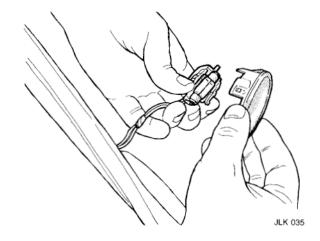
Luggage Compartment Light - Bulb Renewal

Carefully prise the light unit from the luggage compartment trim panel. Lightly squeeze the clear toggles on both sides of the bulb to remove the lens.

Fit a new bulb of the correct type, see page 72.

Refit the lens.

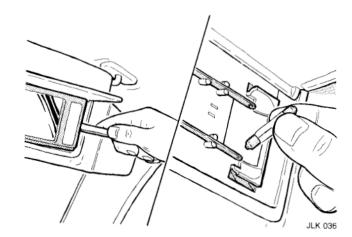
Refit the light unit to the luggage compartment trim panel.



Sun Visor Vanity Mirror Light - Bulb Renewal

Swing the sun visor down and lift the vanity mirror flap. Using a screwdriver carefully prise the mirror/lens assembly from the sun visor. Remove the bulb from the holder and fit a new one of the correct type, see page 72.

Refit the mirror/lens.



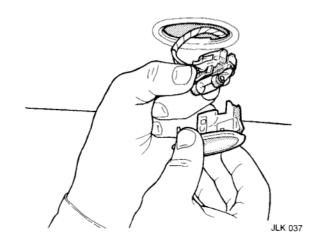
Interior Roof Light (Coupe Only) - Bulb Renewal

Carefully prise one end of the light unit from the roof and remove. Lightly squeeze the clear toggles on both sides of the bulb to remove the lens.

Remove the bulb and fit a new one of the correct type, see page 72.

Refit the lens.

Refit the light unit back into the roof.



Roof Console Courtesy and Map Light - Bulb Renewal

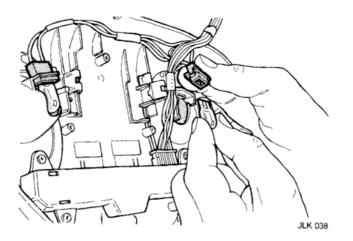
Carefully remove the roof console from the trim panel. (The console is a pull/push fit.)

Remove the bulb holder.

Remove the bulb and fit a new one of the correct type, see page 72.

Refit the bulb holder.

Refit the roof console by carefully pressing into position in the trim panel.

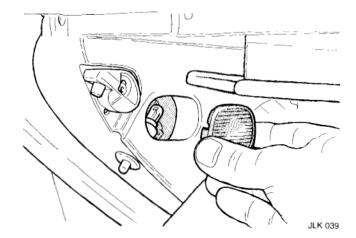


Glove Box Light - Bulb Renewal

Open the glove box and carefully prise the lens from the left–hand side of the glove box.

Remove the bulb from the bulb holder and fit a new one of the correct type, see page 72.

Refit the lens into the glove box.



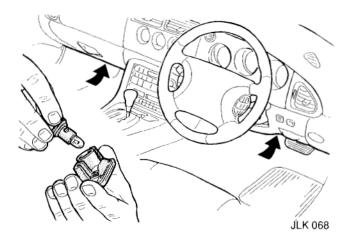
Footwell Light - Bulb Renewal

Press the light unit forward against the spring and carefully prise out the edge of the unit to allow its removal.

Remove the bulb holder.

Remove the bulb and fit a new one of the correct type, see page 72.

Refit the light unit.

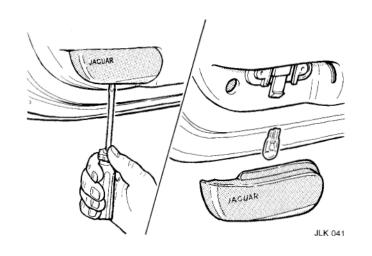


Door Guard Light - Bulb Renewal

Remove the red/clear lens by inserting a flat blade screwdriver through the access hole at the bottom of the lens, to disengage the clip leg, then slide the lens down.

Remove the bulb and fit a new one of the correct type, see page 72.

Refit the lens.



VEHICLE MAINTENANCE _____

Bulb Chart

Description	Capacity	Туре
Door guard light.	12V 5W	Capless long life.
Flasher side repeater.	12V 5W	Capless long life.
Fog lamp – Front.	12V 55W	Halogen H3 long life.
Fog light – Rear guard.	12V 21W	Bayonet long life.
Footwell light.	12V 5W	Bayonet long life.
Front direction indicator.	12V 21W	Bayonet amber long life.
Front parking (side) light.	12V 5W	Capless long life.
Glovebox light	12V 4W	Bayonet long life.
Headlamp - Mainbeam.	12V 60W	Halogen HB3
Headlamp-dip	12V 55W	Halogen H1 long life
Luggage compartment light.	12V 5W	Festoon long life.
Number plate light.	12V 5W	Capless long life.

Description	Capacity	Туре
Roof central courtesy light – coupe.	12V 5W	Festoon long life.
Roof console map light.	12V 6W	Capless.
Rear direction indicator.	12V 21W	Bayonet amber long life.
Reverse light.	12V 21W	Bayonet long life.
Stop light.	12V21W	Bayonet long life.
Sun visor vanity mirror light.	12V3W	Festoon.
Tail light.	12V 5W	Bayonet long life.

VEHICLE MAINTENANCE

Windscreen Wiper Blades

Use Jaguar Screen Clean Paste to remove contamination from the windscreen to ensure effective wiping or if smearing or juddering becomes evident. A more aggressive cleaning agent may be required to remove stubborn contamination. Contact a Jaguar Dealer for advice.

Wash the wiper blades with a mild detergent solution.

Renew the wiper blades before and after each winter, or more often if required.

Note: The wiper blade rubber inserts will be renewed at every service interval except for the 80,000 kilometre (50,000 mile) interval when the wiper blades are renewed (chargeable to customer).

Windscreen Wiper Blades - Inspect and Clean

Lift the wiper blade clear of the windscreen and wipe the blade with a clean, soft cloth moistened with water to which a mild liquid detergent has been added.

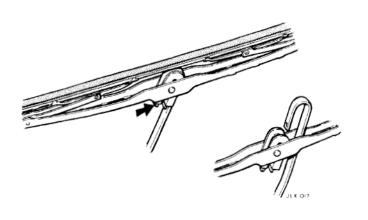
Inspect the wiper blade, and if there any signs of wear or damage; renew the blade.

Renewing Windscreen Wiper Blades

Move the wiper arm away from the windscreen, squeeze the retaining clip and withdraw the wiper blade from the arm.

After fitting the new blade, check that it is held firmly. Re–position the wiper arm and blade on the windscreen.

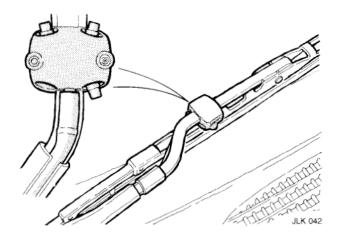
The wiper blades are specifically designed for Jaguar and no other type of blade will give the correct result.



VEHICLE MAINTENANCE _

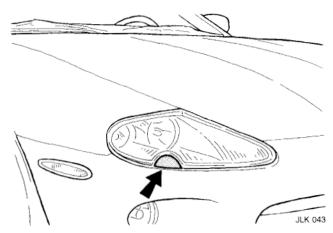
Windscreen Washers

The windscreen washer tubes and nozzles are mounted on the wiper arms to apply the washer fluid directly to the windscreen.



Powerwash System

Note: The headlamp washer jets are factory set. Should they require further adjustment consult your Jaguar Dealer.



SPECIFICATIONS .

General vehicle data of interest to the driver is given in this section.

The recommended tyre pressures should be used and checked regularly. Tyre pressures are specified in this section of the handbook. Note the difference in tyre pressures between vehicles with 17 inch and 18 inch wheels.

All vehicles with catalytic converters must use unleaded fuel. Read the recommendations for the types of fuel before refuelling.

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SPECIFICATIONS ______

Vehicle Data

Engine	4.0 litre V8
Туре	Dual overhead camshafts 4 valves/cylinder.
Capacity	3996 cm ³ (244 inch ³)
Bore	86mm (3.386 inch)
Stroke	86mm (3.386 inch)
Firing order: 1A and 1B cylinders at front of engine	1A, 1B, 4A, 2A, 2B, 3A, 3B, 4B
Compression ratio	10.75 : 1
Spark plugs (unleaded): - Type - Electrode gap	NGK BKR6EVxA13 1.3 mm (0.05 inch)
Spark plugs (leaded): - Type - Electrode gap	NGK BKR6E 1.0 mm (0.04 inch)
Transmission	
Type – Automatic	ZF 5HP24 5 Speed
Final drive type	GKN 14HU On centre line differential
Final drive ratio	3.06 : 1

SPECIFICATIONS –

Weights (Approximate)

	Coupe		Convertible	
	kg	lb	kg	1b
Kerb weight	1615	3553	1705	3751
Front axle kerb weight	842	1852	877	1929
Rear axle kerb weight	773	1700	828	1821
Gross vehicle weight (GVW)	2010	4431	2100	4630
Gross front axle weight	953	2100	983	2167
Gross rear axle weight	1057	2330	1117	2463
Maximum permitted luggage compartment load with passenger and driver	48	106	48	106

SPECIFICATIONS _____

Dimensions (Coupe and Convertible)

	mm	inch
Overall length	4760	187.4
Overall width including mirrors	2016	79.4
Overall width without mirrors	1829	72
Overall height (at gross vehicle weight)	1271	50
Minimum ground clearance (at gross vehicle weight) Coupe Convertible	- 164 162	- 6.5 6.4
Wheelbase	2588	101.9
Track: Front Rear	1504 1504	59.2 59.2
Turning circle: Kerb to kerb	11 metre	36 feet 1 inch

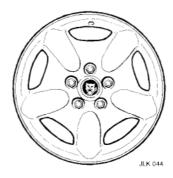
SPECIFICATIONS

Wheel/Tyre Data

Jaguar original equipment and recommended wheels and tyres.

Caution: Do not mix tyre size or make.

17 inch wheel



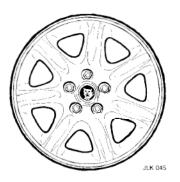
Road wheel size:

8J x 17

Tyre type/size:

Pirelli P Zero 245/50 ZR 17 99Y Asimmetrico

18 inch wheel



Road wheel size:

Front: 8J x 18 Rear: 9J x18

Tyre type/size:

Front - Pirelli P Zero 245/45 ZR 18 96Y Direzionale

Rear - Pirelli P Zero 255/45 ZR 18 99Y Asimmetrico

SPECIFICATIONS

Wheel/Tyre Data (continued)

Temporary-use spare wheel (where fitted):

- Road wheel size.

 18×3.5 .

- Tyre type/size.

Pirelli 135/80 R 18.



WARNING:

Failure to comply with the following can be dangerous. When a temporary-use spare wheel is fitted, switch off traction control, drive with caution and replace with the specified wheel and tyre assembly as soon as possible. Do not fit more than one temporary-use spare at one time. Temporary-use spare, maximum speed is 80 km/h (50 mph).

For information about the temporary use spare wheel, see page 30.

Winter (Snow) Tyres

It is recommended that only Jaguar approved winter tyres are used.

Tyre type/size.

Pirelli Winter 210 Performance M+S

255/45 R 17.

Pirelli Winter 210 Performance M+S

245/50 R 17.

Pirelli Winter 210 Performance M+S

245/45 R 18.

Pirelli Winter 210 Performance M+S 225/60 R 16 (for use with 16 inch steel

wheels only)

Only use winter tyres in complete sets of the same type/size.

Caution: Tyre directional indicators must be rotating in a clockwise direction when viewed from the right-hand side of the vehicle, and anti-clockwise when viewed from the left-hand side of the vehicle.

Do not exceed 210 km/h (130 mph) when using Jaguar approved winter tyres.

For information about snow chains, see page 59.

Recommended Tyre Pressures

Tyres recommended on pages 79 and 80 must be inflated to the following cold inflation pressures:

Model	Maximum Comfort – Speeds up to 160 km/h (100 mph)		Normal Pressures	
17 inch wheels	Front	180 kPa (1,8 kg/cm ² 1,7 bar, 26 lbf/in ²)	220 kPa (2,24 kg/cm ² 2,2 bar, 32 lbf/in ²)	
	Rear	190 kPa (2,0 kg/cm ² 1,9 bar, 28 lbf/in ²)	230 kPa (2,4 kg/cm ² 2,3 bar, 34 lbf/in ²)	
18 inch wheels	Front	180 kPa (1,8 kg/cm ² 1,7 bar, 26 lbf/in ²)	220 kPa (2,24 kg/cm ² 2,2 bar, 32 lbf/in ²)	
	Rear	170 kPa (1,7 kg/cm ² 1,6 bar, 24 lbf/in ²)	210 kPa (2,1 kg/cm ² 2,0 bar, 30 lbf/in ²)	
Temporary–use s	pare wheel		420 kPa (4,2 kg/cm ² 4,0 bar, 60 lbf/in ²)	

Note: A label stating the recommended tyre pressures is fixed to the underside of the centre console storage compartment lid.

Tyres without Jaguar approval

Tyres other than those recommended must be inflated to the following cold inflation pressure (front and rear): 300 kPa (3,1 kg/cm², 3,0 bar, 44 lbf/in²)

When using non–Jaguar approved winter tyres, inflate to the above recommended tyre pressure and do not exceed the tyre's speed capability.

SPECIFICATIONS.

Fuel Requirements

The use of either leaded or unleaded fuel depends on the type of emission control system fitted to the engine and the legislative requirements in the country for which the vehicle is manufactured.

If in doubt your local Jaguar Dealer will advise on which fuel **must** be used in your vehicle.

Any vehicle NOT fitted with a catalytic system can use either LEADED or UNLEADED fuel.

Always use a high quality fuel which contains detergent and other additives. These will help to protect the engine components against corrosion and carbon deposit formation, and prevent the fuel injection system from clogging.

The continuous use of high quality fuel makes the need for additional additives unnecessary.

Unleaded Fuel

Vehicles with engines fitted with catalytic converters **must only** be filled with **'Unleaded Fuel'**. The filler neck of the fuel tank is a small diameter to prevent the larger diameter nozzle of a leaded fuel pump entering.

Japan only: Use only unleaded fuel, the filler neck of the fuel tank on these vehicles is of a large diameter.

Unleaded fuel must be used for the emission control system to operate properly. Its use will also reduce spark plug fouling, exhaust system corrosion and engine oil deterioration.

Use unleaded fuel with an octane rating of at least 95 RON (Research Octane Number).

Note: 'Super Green' Plus 98 RON unleaded fuel (where available) may be used as an alternative to the standard 95 RON unleaded fuel.

Using unleaded fuel with an octane rating lower than recommended can cause persistent, heavy 'spark knock' (a metallic rapping noise). If severe, this can lead to engine damage. If a heavy 'spark knock' is detected even when using fuel of the recommended octane rating, or if you hear steady 'spark knock' while holding a steady speed on level roads have a Jaguar Dealer correct the problem. Failure to do so is misuse of the vehicle, for which Jaguar Cars Limited, is not responsible. However, occasional light 'spark knock' for a short time while accelerating or driving up hill, may occur. Although this noise should not give cause for concern, it may be eliminated by the use of a fuel of a higher octane rating than that recommended.

SPECIFICATIONS

Catalytic Converters

A few precautions on the use of vehicles fitted with catalytic converters are necessary. These are:

- In order to maintain the efficiency of the emission control system it is essential that unleaded fuel is used. This fuel minimises spark plug fouling, thereby sustaining engine performance. Use of leaded fuel will seriously damage the catalytic converters.
- 2. Never leave the vehicle unattended with the engine running.
- Heavy impact on the converter casings must be avoided as they contain ceramic material which is easily damaged.
- 4. The engine settings must not be altered; they have been established to ensure that the vehicle will comply with stringent exhaust emission regulations. Incorrect engine settings could cause unusually high catalytic converter temperatures and thus result in damage to the converter and vehicle. If adjustment to the settings is considered necessary, this should be performed by a Jaguar Dealer.
- A correctly tuned engine optimises exhaust emissions, performance and fuel economy and it is recommended that the vehicle is maintained as detailed in the maintenance schedules.
- Do not continue to operate the vehicle if any engine malfunction is evident; malfunctions should be rectified immediately. For instance, misfire, loss of engine performance or engine run–on may lead to unusually high catalytic converter temperatures and may result in damage to the converters and vehicle.

- The use of catalytic converters increases exhaust system temperatures, therefore, do not operate or park the vehicle in areas where combustible materials such as dry grass or leaves may come into contact with the exhaust system.
- 8. Do not run the engine with either a spark plug lead disconnected or a spark plug removed. Do not use any device that requires an insert into a spark plug hole in order to generate air pressure e.g. tyre pump, paint spray attachment etc., as this could also result in catalytic converter damage.
- The vehicle is designed for normal road use. Below are examples of abuse which could damage the catalytic converters and vehicle. These may lead to a dangerous condition due to excessively high catalytic converter temperatures.
 - a) Competition or off-road use.
 - b) Excessive engine speed.
 - c) Overloading the vehicle.
 - d) Switching off the engine whilst in gear.

ACCESSORIES –

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ACCESSORIES

Electrical Accessories

The fitment of accessories, additional accessory supply sockets, relays and fuses must only be entrusted to a Jaguar Dealer.

Caution:

- The use of any accessories not specifically designed for this Jaguar will damage the electrical circuits and systems of the vehicle.
- Under no circumstances must the power supply be obtained directly from either battery terminal.
- The use of non-approved accessories can reduce the battery capacity and charge period to an unacceptable level, therefore Jaguar cannot accept any liability for the fitment of any such item.

The cigar lighter socket can be used for plug-in accessories which are only temporarily connected to the vehicle (i.e. car vacuum cleaner).

Electrical Accessory Supply Sockets

Two electrical accessory supply sockets are provided in the following areas:

- On the passenger side, behind the glove box.
- 2. In the luggage compartment, clipped near the battery.

Note: Before connecting electrical accessories to these sockets, consult a Jaguar Dealer.

Earth Points

If an accessory needs to be connected to an earth point, consult a Jaguar Dealer.

Caution: Under no circumstances must holes be drilled in the bodywork to accept earth terminals.

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